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Examiner: <i>Paul Bell</i>	Date Considered: <i>2/9/2002</i>
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#84

Form 1449 (Modified) Information Disclosure Statement By Applicant <i>(Use Several Sheets if Necessary)</i>	Atty Docket No.: IMM1P053	Application No.: 09/153,781 Received
	Applicant: Rosenberg et al.	
	Filing Date: 9/16/98	Technology Center 2100 Group: 2152

U.S. Patent Documents

Examiner Initial	Patent No.	Date	Patentee	Class	Sub-Class	Filing Date
PQB	* 3,919,691	11/11/75	Noll	340	172.5	5/26/71
PQB	3,923,166	12/2/75	Fletcher et al.	214	1	10/11/73
PQB	* 4,125,800	11/14/78	Jones	318	681	09/02/75
PQB	* 4,398,889	08/16/83	Lam et al.	434	45	06/08/81
PQB	4,603,284	7/29/86	Perzley	318	568	6/5/84
PQB	* 4,632,341	12/30/86	Repperger et al.	244	230	02/06/85
PQB	* 4,654,648	03/31/87	Herrington et al.	340	710	12/17/84
PQB	* 4,689,449	08/25/87	Rosen	200	6A	10/03/86
PQB	4,795,296	1/3/89	Jau	414	5	11/17/86
PQB	* 4,800,721	01/31/89	Cemenska et al.	60	393	02/13/87
PQB	* 4,823,634	4/25/89	Culver	74	471 XY	11/3/87
PQB	* 4,839,838	06/13/89	LaBiche et al.	364	709.11	03/30/87
PQB	4,853,874	8/1/89	Iwamoto et al.	364	513	11/20/87
PQB	* 4,868,549	9/19/89	Affinito et al.	340	710	5/18/87
PQB	4,888,538	12/19/89	Dimitrov et al.	318	675	5/14/87
PQB	* 4,907,970	03/13/90	Meenen, Jr.	434	45	03/30/88
PQB	* 4,935,728	6/19/90	Kley	340	709	11/20/87
PQB	4,942,538	7/17/90	Yuan et al.	364	513	2/23/89
PQB	4,949,119	8/14/90	Moncrief et al.	364	578	1/12/89
PQB	* 4,961,138	10/02/90	Gorniak	364	200	10/02/89
PQB	* 5,007,085	04/09/91	Greanias et al.	380	25	10/28/88
PQB	* 5,007,300	04/16/91	Siva	74	471XY	01/22/90
PQB	5,018,922	5/28/91	Yoshinada et al.	414	5	9/12/89
PQB	5,038,089	8/6/91	Szakaly	318	568	10/28/88
PQB	* 5,044,956	09/03/91	Behensky et al.	434	45	01/12/89
PQB	* 5,050,608	09/24/91	Watanabe et al.	128	653R	09/04/90
PQB	* 5,072,361	12/10/91	Davis et al.	364	167.01	02/01/90
PQB	* 5,080,377	01/14/92	Stamper et al	273	437	05/31/90
PQB	* 5,103,404	04/07/92	McIntosh	318	568.22	12/20/89
PQB	* 5,107,080	04/21/92	Rosen	200	6A	12/01/89

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#8
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Form 1449 (Modified) Information Disclosure Statement By Applicant <i>(Use Several Sheets if Necessary)</i>	Atty Docket No.: IMM1P053	Application No.: 09/153,781
	Applicant: Rosenberg et al.	
	Filing Date: 9/16/98	Received 2152 MAR 06 2001

U.S. Patent Documents

Technology Center 2100

Examiner Initial	Patent No.	Date	Patentee	Class	Sub- Class	Filing Date
<i>PAB</i>	* 5,116,051	05/26/92	Moncrief et al.	273	448B	06/08/90
<i>PAB</i>	* 5,128,671	07/07/92	Thomas, Jr.	341	20	04/12/90
<i>PAB</i>	* 5,132,672	07/21/92	Clark	340	710	07/13/90
<i>PAB</i>	* 5,139,261	08/18/92	Openiano	273	148B	09/18/91
<i>PAB</i>	* 5,142,931	09/01/92	Menahem	74	471XY	02/14/91
<i>PAB</i>	* 5,143,505	09/01/92	Burdea et al.	414	5	02/26/91
<i>PAB</i>	* 5,146,566	9/8/92	Hollis, Jr. et al.	395	275	5/29/91
<i>PAB</i>	* 5,181,181	01/19/93	Glynn	364	566	09/27/90
<i>PAB</i>	* 5,184,319	02/02/93	Kramer	364	806	02/02/90
<i>PAB</i>	* 5,185,561	02/09/93	Good et al.	318	432	07/23/91
<i>PAB</i>	* 5,193,963	3/16/93	McAfee et al.	414	5	10/31/90
<i>PAB</i>	* 5,220,260	06/15/93	Schuler	318	561	10/24/91
<i>PAB</i>	* 5,223,776	06/29/93	Radke et al.	318	568.1	12/31/90
<i>PAB</i>	* 5,230,623	07/27/93	Guthrie et al.	433	72	12/10/91
<i>PAB</i>	* 5,235,868	8/17/93	Culver	74	471 XY	10/2/91
<i>PAB</i>	* 5,243,266	09/07/93	Kasagami et al.	318	568.1	07/02/92
<i>PAB</i>	* 5,264,768	11/23/93	Gregory et al.	318	561	10/06/92
<i>PAB</i>	5,266,875	11/30/93	Slotine et al.	318	568	5/23/91
<i>PAB</i>	* 5,275,565	01/04/94	Moncrief	434	29	02/23/93
<i>PAB</i>	* 5,289,273	02/22/94	Lang	348	121	11/05/92
<i>PAB</i>	5,341,459	8/23/94	Backes	395	95	8/9/91
<i>PAB</i>	* 5,354,162	10/11/94	Burdea et al.	414	5	08/31/92
<i>PAB</i>	* 5,389,865	02/14/95	Jacobus et al.	318	568.11	12/02/92
<i>PAB</i>	* 5,396,266	03/07/95	Brimhall	345	161	06/08/93
<i>PAB</i>	* 5,396,267	03/07/95	Bouton	345	168	01/07/93
<i>PAB</i>	* 5,405,152	04/11/95	Katanics et al.	273	438	06/08/93
<i>PAB</i>	* 5,414,337	05/09/95	Schuler	318	561	06/11/93
<i>PAB</i>	* 5,428,748	06/27/95	Davidson et al.	395	275	09/24/92
<i>PAB</i>	* 5,429,140	07/04/95	Burdea et al.	128	774	06/04/93
<i>PAB</i>	* 5,435,554	07/25/95	Lipson	273	88	03/08/93

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Form 1449 (Modified) Information Disclosure Statement By Applicant <i>(Use Several Sheets if Necessary)</i>	Atty Docket No.: IMM1P053	Application No.: 09/153,781
	Applicant: Rosenberg et al.	
	Filing Date: 9/16/98	Received MAR 06 2001

U.S. Patent Documents

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Examiner Initial	Patent No.	Date	Patentee	Class	Sub-Class	Filing Date
PAB	* 5,436,542	07/25/95	Petelin et al.	318	567	01/28/94
PAB	* 5,436,638	7/25/95	Bolas et al.	345	156	12/17/93
NAB	* 5,451,924	09/19/95	Massimino et al.	340	407.1	01/14/93
PAB	* 5,459,382	10/17/95	Jacobus et al.	318	568.11	06/09/94
NAB	* 5,512,919	04/30/96	Araki	345	156	03/30/93
PAB	* 5,513,100	04/30/96	Parker et al.	364	167.01	06/10/93
NAB	* 5,550,562	8/27/96	Aoki et al.	345	163	4/11/95
PAB	* 5,551,701	09/03/96	Bouton et al.	463	36	01/05/94
PAB	* 5,576,727	11/19/96	Rosenberg et al.	345	179	06/05/95
PAB	* 5,577,981	11/26/96	Jarvik	482	4	08/04/95
PAB	* 5,586,257	12/17/96	Perlman	463	42	05/05/94
PAB	* 5,587,937	12/24/96	Massie et al.	364	578	04/25/95
PAB	* 5,589,828	12/31/96	Armstrong	341	20	03/05/92
PAB	* 5,589,854	12/31/96	Tsai	345	161	06/22/95
PAB	* 5,623,582	04/22/97	Rosenberg	395	99	07/14/94
PAB	* 5,623,642	04/22/97	Katz et al	395	500	04/06/94
PAB	* 5,625,576	04/29/97	Massie et al.	364	678	10/01/93
PAB	* 5,642,469	6/24/97	Hannaford et al.	395	99	11/3/94
PAB	* 5,643,087	07/01/97	Marcus et al	463	38	07/29/94
PAB	* 5,666,138	9/9/97	Culver	345	161	11/22/94
PAB	* 5,666,473	9/9/97	Wallace	345	420	10/8/92
PAB	* 5,691,898	11/25/97	Rosenberg et al.	364	190	3/28/96
PAB	5,694,013	12/2/97	Stewart et al.	318	561	9/6/96
PAB	* 5,709,219	1/20/98	Chen et al.	600	595	
PAB	* 5,714,978	2/3/98	Yamanaka et al.	345	157	
PAB	* 5,721,566	2/24/98	Rosenberg et al.	345	161	6/9/95
PAB	* 5,734,373	3/31/98	Rosenberg et al.	345	161	12/1/95
PAB	* 5,736,978	4/7/98	Hasser et al.	345	173	5/26/95
PAB	* 5,742,278	4/21/98	Chen et al.	345	156	
PAB	5,754,023	5/19/98	Roston et al.	318	561	10/22/96

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Form 1449 (Modified) Information Disclosure Statement By Applicant <i>(Use Several Sheets if Necessary)</i>	Atty Docket No.: IMM1P053	Application No.: 09/153,781
	Applicant: Rosenberg et al.	
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U.S. Patent Documents

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Examiner Initial	Patent No.	Date	Patentee	Class	Sub- Class	Filing Date
PAB	* 5,755,577	5/26/98	Gillio	434	262	7/11/96
PAB	* 5,767,839	6/16/98	Rosenberg	345	161	3/3/95
PAB	* 5,769,640	6/23/98	Jacobus et al.	434	262	8/10/95
PAB	* 5,771,037	6/23/98	Jackson	345	157	7/24/95
PAB	* 5,781,172	7/14/98	Engel et al.	345	164	6/16/97
PAB	* 5,790,108	8/4/98	Salcudean et al.	345	184	10/23/92
PAB	5,791,992	8/11/98	Crump et al.	463	41	7/31/96
PAB	5,802,353	9/1/98	Avila et al.	395	500	6/12/96
PAB	* 5,805,140	9/8/98	Rosenberg et al.	345	161	11/17/95
PAB	* 5,831,408	11/3/98	Jacobus et al.	318	568.11	
PAB	* 5,844,392	12/1/98	Peurach et al.	318	568.11	
PAB	5,884,029	3/16/99	Brush, II et al.	395	200.32	11/14/96
PAB	* 5,889,670	3/30/99	Schuler et al.	364	186	1/11/96
PAB	5,956,484	9/21/99	Rosenberg et al.	395	200.33	8/1/96
PAB	5,990,869	11/23/99	Kubica et al.	345	163	2/19/97
PAB	6,004,134	12/21/99	Marcus et al.	434	45	5/19/94
PAB	6,088,017	7/11/00	Tremblay et al.	345	156	4/24/98
PAB	6,101,530	8/8/00	Rosenberg et al.	709	203	9/16/98
PAB	6,111,577	8/29/00	Zilles et al.	345	355	4/4/96
PAB	6,125,385	9/26/00	Wies et al.	709	203	9/22/99
PAB	6,131,097	10/10/00	Peurach et al.	707	102	5/21/97
PAB	6,161,126	12/12/00	Wies et al.	709	203	2/2/99

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#57
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Form 1449 (Modified) Information Disclosure Statement By Applicant <i>(Use Several Sheets if Necessary)</i>	Atty Docket No.: IMM1P053	Application No.: 09/153,781
	Applicant: Rosenberg et al	
	Filing Date: 9/16/98	Group: Received MAR 26 2001

Other Documents

Technology Center 2100

Examiner Initial	Author, Title, Date, Place (e.g. Journal) of Publication
PAB	* Jacobsen, S.C. et al., "High Performance, High Dexterity, Force Reflective Teleoperator II," ANS Topical Meeting on Robotics & Remote Systems," Albuquerque, New Mexico February 24-27, 1991, pp. 1-10.
PAB	* Kotoku, Tetsuo et al., "Environment Modeling for the Interactive Display (EMID) Used in Telerobotic Systems," IEEE November 3-5, 1991, pp. 99-1004.
PAB	* Bejczy, Antal K., "The Phantom Robot: Predictive Displays for Teleoperation with Time Delay," IEEE 1990, pp. 546-550.
PAB	* Buttolo, Pietro et al., "Pen-Based Force Display for Precision Manipulation in Virtual Environments," IEEE March 1995, pp. 1-8.
PAB	* Tan, Hong Z. et al., "Human Factors for the Design of Force-Reflecting Haptic Interfaces," Tan, Srinivasan, Eberman, & Chang, ASME WAM 1994, pp. 1-11.
PAB	* Ellis, R.E. et al., "Design and Evaluation of a High-Performance Prototype Planar Haptic Interface," ASME December 3, 1993, DSC-Vol. 49, pp. 55-64.
PAB	* Adelstein Bernard D. et al., "A High Performance Two Degree-of-Freedom Kinesthetic Interface," Massachusetts Institute of Technology 1992, pp. 108-112.
PAB	* Colgate J. Edward et al., "Implementation of Stiff Virtual Walls in Force-Reflecting Interfaces, September 22, 1993.
PAB	* Iwata, Hiroo et al., "Volume Haptization, IEEE 1993, pp. 16-18.
PAB	* Fischer, Patrick et al., "Specification and Design of Input Devices for Teleoperation," 1990.
PAB	* Burdea, Grigore et al., "Distributed Virtual Force Feedback," IEEE, May 2, 1993, pp. 25-44.
PAB	* Rosenberg, Louis B., "The Use of Virtual Fixtures as Perceptual Overlays to Enhance Operator Performance in Remote Environments," Air Force Material Command, September 1992, pp. 1-42.
PAB	* Rosenberg, Louis B., "The Use of Virtual Fixtures to Enhance Operator Performance in Time Delayed Teleoperation, Armstrong Laboratory, March 1993, pp. 1-45.
PAB	* Rosenberg, Louis B., "Perceptual Design of a Virtual Rigid Surface Contact," Center for Design Research Stanford University, Air Force Material Command, April 1993, pp. 1-41.
PAB	* Rosenberg, Louis B. et al., "Perceptual Decomposition of Virtual Haptic Surfaces," IEEE, October 1993.
PAB	* Rosenberg, Louis B., "Virtual Fixtures as Tools to Enhance Operator Performance in Telepresence Environments," SPIE Telemanipulator Technology, 1993.
PAB	* Burdea, Grigore et al., "Dextrous Telerobotics with Force Feedback-An Overview," Robotica 1991, Vol. 9.
PAB	* Colgate, J. Edward et al., "Implementation of Stiff Virtual Walls in Force-Reflecting Interfaces," 1993, pp. 1-9.
PAB	* Yamakita, M. et al., "Tele-Virtual Reality of Dynamic Mechanical Model, IEEE July 7-10, 1992, pp. 1103-1110.
PAB	* Adlestein, Bernard D. et al., "Design and Implementation of a Force Reflecting Manipulandum for Manual Control Research," 1992, pp. 1-24.
PAB	* Ouh-young, Ming et al., "Force Display Performs Better than Visual Display in a Simple 6-D Docking Task," IEEE 1989, pp. 1462-1466.

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Examiner: Paul Bell	Date Considered: 2/15/2002
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Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

#14 4

Form 1449 (Modified) Information Disclosure Statement By Applicant <i>(Use Several Sheets if Necessary)</i>	Atty Docket No.: IMM1P053	Application No.: 09/153,781
	Applicant: Rosenberg et al.	
	Filing Date: 9/16/98	Group: 2152

Received

Examiner Initial		Author, Title, Date, Place (e.g. Journal) of Publication
PAB	*	Kim, Won S. et al., "Graphics Displays for Operator Aid in Telemanipulation," <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1991, pp. 1059-1067.
PAB	*	Hannaford, Blake et al., "Performance Evaluation of a Six-Axis Generalized Force-Reflecting Teleoperator," <i>IEEE May/June 1991</i> , Vol. 21, No. 3, pp. 620-633..
PAB	*	Kim, Won S. et al., "A Teleoperation Training Simulator with Visual and Kinesthetic Force Virtual Reality.
PAB	*	Burdea, Grigore et al., "A Portable Dextrous Master with Force Feedback," <i>Presence: Teleoperators and Virtual Environments</i> , MIT Press, June 1991.
PAB	*	Fisher, S.S. et al., "Virtual Environment Display System," <i>ACM Interactive 3D Graphics</i> , October 1986.
PAB	*	Herndon, J.N. et al., "The State-of-the-Art Model M-2 Maintenance System," <i>Proc. of the 1984 Natl Meeting on Robotics and Remote Handling in Hostile Environments</i> , American Nuclear Society, 1984, pp. 59-65.
PAB	*	Minsky, Margaret et al., "Feeling and Seeing: Issues in Force Display," <i>ACM 1990</i> , pp. 235-242.
PAB	*	Batter, James J. et al., "Grobe-1: A Computer Display to the Sense of Feel," pp. TA-4-188-TA-4-192.
PAB	*	Gotow, J.K., et al., "Perception of Mechanical Properties at the Man-Machine Interface," <i>IEEE 1987</i> , pp. 688-689.
PAB	*	Atkinson, William D. et al, "Computing with Feeling," <i>Comput. & Graphics</i> , Vol. 2, No. 2-E, pp. 97-103.
PAB	*	Noll, A. Michael, "Man-Machine Tactile Communication Dissertation," <i>Polytechnic Institute of Brooklyn</i> , June 1971, pp. 1-88.
PAB	*	Ouh-Young, Ming, "Force Display in Molecular Docking," <i>Chapel Hill 1990</i> , pp. 1-85.
PAB	*	Ouh-young, Ming et al., "Using a Manipulator for Force Display in Molecular Docking," <i>IEEE 1988</i> , pp. 1824-1829.
PAB	*	Wiker, S. et al., "Development of Tactile Mice for Blind Access to Computers: Importance of Stimulation Locus, Object Size, and Vibrotactile Display Resolution," <i>Proc. of the Human Factors Society 35th Annual Meeting 1991</i> , pp. 708-712.
PAB	*	Adachi, Yoshitaka et al., "Sensory Evaluation of Virtual Haptic Push-Buttons," <i>Technical Research Center, Suzuki Motor Corporation</i> , November 1994.
PAB	*	Su, S. Augustine et al., "The Virtual Panel Architecture: A 3D Gesture Framework," <i>IEEE 1993</i> , pp. 387-393.
PAB	*	Tan, Hong Z et al., "Manual Resolution of Compliance When Work and Force Cues are Minimized," <i>ASME 1993, DSC-Vol. 49</i> , pp. 99-104.
PAB	*	Iwata, Hiroo, "Pen-based Haptic Virtual Environment," <i>Institute of Engineering Mechanics, University of Tsukuba, Japan</i> , pp. 287-292.
PAB	*	Kotoku, Tetsuo, "A Predictive Display with Force Feedback and its Application to Remote Manipulation System with Transmission Time Display," <i>IEEE 1992, 1992</i> , pp. 239-246.
PAB	*	Howe, Robert D., "Task Performance with a Dextrous Teleoperated Hand System," <i>Proceedings of SPIE</i> , November 1992, Vol. 1833, pp. 1-9.*
PAB	*	Schmult, Brian et al., "Application Areas for a Force-Feedback Joystick," <i>ASME 1993, DSC-Vol. 49</i> , pp. 47-54.

Other Documents

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Form 1449 (Modified) Information Disclosure Statement By Applicant <i>(Use Several Sheets if Necessary)</i>	Atty Docket No.: IMM1P053	Application No.: 09/153,781
	Applicant: Rosenberg et al.	
	Filing Date: 9/16/98	Group: 2152

Examiner Initial		Author, Title, Date, Place (e.g. Journal) of Publication
PAB	*	Hasser, Christopher John, "Tactile Feedback for a Force-Reflecting Haptic Display," The School of Engineering, University of Dayton, December 1995, pp. iii-xii & 1-96.
PAB	*	Russo, Massimo Andrea, "The Design and Implementation of a Three Degree-of-Freedom Force Output Joystick," Department of Mechanical Engineering, May 11, 1990, pp. 9-40 & 96 & 97.
PAB	*	Jones, L.A., et al., "A Perceptual Analysis of Stiffness," ExperimBrain Research 1990, pp. 151-156.
PAB	*	Kelley, A. J. et al., "MagicMouse: Tactile and Kinesthetic Feedback in the Human-Computer Interface using an Electromagnetically Actuated Input/Output Device," Dept. of Elec. Eng., Univ. of Brit. Columbia, 1993, pp. 1-27.
PAB	*	Kelley, A.J. et al., "On the Development of a Force-Feedback Mouse and Its Integration into a Graphical User Interface," Symp. on Haptic Interfaces for Virtual Environment and Teleoperator Systems, 1994 Int'l Mechanical Engineering Congress and Exhibition, 1994, pp. 1-8.
PAB	*	Ramstein, C., "Combining Haptic and Braille Technologies: Design Issues and Pilot Study," ASSETS '96, ACM 0-89791-776-6, 1996, pp. 37-44.
PAB	*	Akamatsu, M. et al., "Multimodal Mouse: A Mouse-Type Device with Tactile and Force Display," Presence, Vol. 3, No. 1, 1994, pp. 73-80.
PAB	*	Munch, S. et al., "Intelligent Control for Haptic Displays," Eurographics '96, Vol. 15, No. 3, Eurographics Association, 1996, pp. C217-C226.
PAB	*	Payette, J. et al., "Evaluation of a Force Feedback (Haptic) Computer Pointing Device in Zero Gravity," DSC-Vol. 58, Proc. of ASME Dynamics Systems, ASME 1996, pp. 547-553.
PAB	*	Hannaford, B. et al., "Force Feedback Cursor Control," NASA Tech Brief, Vol. 13, No. 11, Item #21, 1989, pp. 1-4.
PAB	*	Rosenberg et al., "Commercially Viable Force Feedback Controller for Individuals with Neuromotor Disabilities," Crew Systems Directorate, AL/CF-TR-1997-0016, 1996, pp. 1-33.
PAB	*	Millman, P. et al., "Design of a Four Degree-of-Freedom Force-Reflecting Manipulandum with a Specified Force/Torque Workspace," IEEE CH2969-4, 1991, pp. 1488-1492.
PAB	*	Ramstein et al., "The Pantograph: A large Workspace Haptic Device for a Multimodal Human-Computer Interaction," Computer-Human Interaction, CHI '94, 1994, pp. 1-3.
PAB	*	Rosenberg et al., "The use of force feedback to enhance graphical user interfaces," Stereoscopic Displays and Virtual Reality Systems III, 1996, pp. 243-248.
PAB	*	Winey III, C., "Computer Simulated Visual and Tactile Feedback as an Aid to Manipulator and Vehicle Control," MIT 1981, pp. 1-79.
PAB	*	Yokokohji et al., "What you can see is what you can feel-development of a visual/haptic interface to virtual environment," IEEE 0-8186-7295-1, 1996, pp. 46-54.
PAB	*	Brooks, Jr., F., et al., "Project Grope-Haptic Displays for Scientific Visualization," ACM-0-89791-344-2, 1990, pp. 177-185.
PAB	*	Kilpatrick, P., "The use of a Kinesthetic Supplement in an Interactive Graphics System," University of North Carolina, 1976, pp. 1-175.
PAB	*	Ming Ouh-young et al., "Creating an Illusion of Feel: Control Issues in Force Display," University of North Carolina, 1989, pp. 1-14.
PAB	*	Hirota, K., et al., "Development of Surface Display," IEEE 0-7803-1363-1, 1993, pp. 256-262.

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Examiner: Paul Bell	Date Considered: 2/15/2002
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Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

